



ADDENDUM NO. 1

ITB 442-8999

Computer Maintenance (Annual Contract)

Issued February 4, 2004

1. Paragraph 1.05, Competency of Bidders, is modified as follows:

This mainframe control system is vital to the operation of the Fiveash Water Treatment Plant. Therefore, the Contractor shall have a minimum of one year's experience in the maintenance, repair and troubleshooting of this system or similar mainframe hardware and software. The bidder should furnish a brief narration with their bid response that details this experience. The City reserves the right to require a service test period or other demonstration of bidder's proficiency prior to award of contract.

2. The following information is added to paragraph 2.01.

The basic design of the system is that of distributed process monitoring and control. That is, the system is physically and functionally distributed between the Host Computers (MODCOMP Classic II/45) in the Plant Control Center (PCC) and the remote satellite Processors. The system has dual host computers and four remote satellite computers (MODCOMP Classic II/15 Process Controllers). The major hardware is listed below. The Contractor shall be responsible for all equipment required to insure the proper operation of the Computer System. This shall include all cables, power supplies, enclosures, fans, filters, etc.

The Computer System is based on the MAXPAC Process Monitoring and Control Software, which is a product of MODCOMP and is configured as a distributed system. The Application software for the system is the MODCOMP MAXPAC Process Monitoring and Control package. In addition, the system uses the MODCOMP MAX IV operating system and the MAXNET network communication software. Lightpen Capability, Voice Annunciator, and also the addition of more control capability enhance the standard MAXPAC. The system has additional custom software for the following functions:

- Interface to the existing Supervisory Control and Data Acquisition (SCADA) system
- Interface from each process controller to a Square D SyNet data highway
- Power Demand Monitoring program

Plant Control Center Hardware has a CPU A & B, each consisting of the following:

- 3517 Floating Point Unit; CL II/45 W/1 MB (2 EACH 3695-3 512KB Memory; 4805-2 Parallel Controller; 4182-11 132 MB Fixed Disc & Controller; TI 820 KSR Terminal.
- Peripheral Enclosure consisting of a 4911-1 Peripheral Controller Enclosure with 4806-2 Asynchronous Terminal Controller; 4828-1 Standard Link (PC-1); 4828-1 Standard Link (PC-2); 4913 Peripheral Selector Controller; and a 4911-2

Peripheral Controller Enclosure with 4197 Magnetic Tape Controller; 4828-1 Standard Link (PC-4); 4828-1 Standard Link (PC-3); 4828-1 Standard Link (UCC).

- 4196A-11 MAGNETIC TAPE UNIT WITH CONTROLLER
- Operator Console with 8830 LP AYDIN 19" Display, w.keyboard & Pen (3 Each); Votrax Personal Speech System; DS180PLUS Datasouth Printer (2 Each)

Process Controller 1 consisting of the following:

- MODCOMP Classic/ II 15-1; 4809-12 Octal Asynchronous Interface; 4828-1 Standard Link; 1810-1 MODACS III Primary Controller.
- 1804-1 MODACS III Subsystem with 1860-1 Basic HLAIS Analog Input Board; 1861-1 HLAIS Expander Analog Input Board; 1821-1 32-BIT Interface Digital Input Boards (6 Each); 1831-1 32-BIT Interface Digital Output Board; 1851-1 4 Channel Analog Output (4 Each).

Process Controller 2 consisting of the following:

- MODCOMP Classic/ II 15-1; 4809-12 Octal Asynchronous Interface; 4828-1 Standard Link; 1810-1 MODACS III Primary Controller;
- 1804-1 MODACS III Subsystem; 1860-1 Basic HLAIS Analog Input Board; 1861-1 HLAIS Expander Analog Input Board; 1821-1 32-BIT Interface Digital Input Board (2 Each); 1831-1 32-BIT Interface Digital Output Board; 1851-1 4 Channel Analog Output (2 Each).

Process Controller 3 consisting of the following:

- MODCOMP Classic/ II 15-1; 4809-12 Octal Asynchronous Interface; 4828-1 Standard Link; 1810-1 MODACS III Primary Controller.
- 1804-1 MODACS III Subsystem; 1860-1 Basic HLAIS Analog Input Board; 1861-1 HLAIS Expander Analog Input Board; 1821-1 32-BIT Interface Digital Input Board.

Process Controller 4 consisting of the following:

- MODCOMP Classic/ II 15-1; 4809-12 Octal Asynchronous Interface; 4828-1 Standard Link; 1810-1 MODACS III Primary Controller.
- 1804-1 MODACS III Subsystem; 1860-1 Basic HLAIS Analog Input Board; 1861-1 HLAIS Expander Analog Input Board (2 Each); 1821-1 32-BIT Interface Digital Input Board (4 Each); 1831-1 32-BIT Interface Digital Output Board (2 Each); 1851-1 4 Channel Analog Output (4 Each).

3. The following information is to clarify paragraph 2.02C. The City recognizes that vendors have costs of doing business that cannot of necessity be associated with individual pieces of equipment. However, the City is desirous on knowing what reductions it can expect if it takes equipment out of service. Therefore, bidders should indicate the per piece cost of equipment as requested. However, they may also state, as a variance, a monthly cost of contract service below which they cannot continue service on the remaining pieces of equipment. (See also paragraph 1.06 of the General Conditions.)

4. The equipment lists in paragraphs 2.03 and 2.04 shall be disregarded and replaced by the following:

#	Model #	Part No.	Description	In Use	Spare	Total
1.	CL II/45-4	516-100540-003	CPU with 1 MB	2	2	4
2.	3767		Console Controller	2	1	3
3.	3517	516-100519-001	Hardware Floating Point	2	1	3
4.	4805-2	516-100198-001	Parallel Controller	2		2
5.	4182-11		132MB Fixed Disc & Controller	2	1	3
6.	820 KSR		TI Terminal/Printer	2	1	3
7.	4911-2		Peripheral Enclosure	1		1
8.	4196A-11		MAG Tape Unit w/Controller	1		1
9/18.	4828-1	516-100491-001	CPU Link	9	4	13
10	4911-1		Peripheral Enclosure	1		1
11.	4806-2	516-100443-001	Asynch Controller	1	1	2
12.	4913	516-30020 -001	Peripheral Selector Controller	1		1
13.	8830 LP		AYDIN 19" Display w/keyboard & Pen	3	1	4
14.	CS-01		Votrax Personal Speech System	1	1	2
15.	DS180Plus		Datasouth Matrix Printer	2	1	3
16.	CL II/ 15-1	516-100592-001	CPU , 512KB	4	1	5
17.	4809-2	516-100629-001	Octal Asynch Interface	4	1	5
19.	1810-1	551-100480-001	MODACS III Primary Controller	4	1	5
20.	1804-1		MODACS III Subsystem	4		4
21.	1860-1	551-100610-001	Basic HLAIS Analog Input Board	4	2	6
22.	1851-1	516-100482-001	Analog Output Board	10	1	11
23.	1821-1	516-100452-001	Digital Input Board	13	3	16

24.	1831-1		Digital Output Board	4		4
	4176A	516-200206-001	Moving Head Disc Controller	2	1	3
	D2257		NEC Winchester Disc Drive w/PS	2	1	3
	VID-127		Video Board		1	1
	DFL-006		Deflection Board		1	1
	PSB-004		Power Supply Board		1	1
	1861-1		HLAIS Expand. Analog Input Board	5		5
	4197	516-100630-001	Magnetic Tape Controller		2	2

5. Bid opening date has been rescheduled to **2:00 p.m. February 19, 2004.**

Please sign and return this addendum, either with your bid or under separate cover, on or before the revised opening date of this bid. If submitting this addendum under separate cover, please indicate the bid number and opening date on the face of your envelope in the lower left-hand corner. Bidders may retrieve their bids or send a corrected copy prior to the revised bid opening date.

All other terms, conditions, and specifications remain unchanged.

Kirk W. Buffington, C.P.M., MBA
Assistant Director, Administrative Services

Company
Name: _____
(please print)

Bidder's
Signature: _____

Date: _____